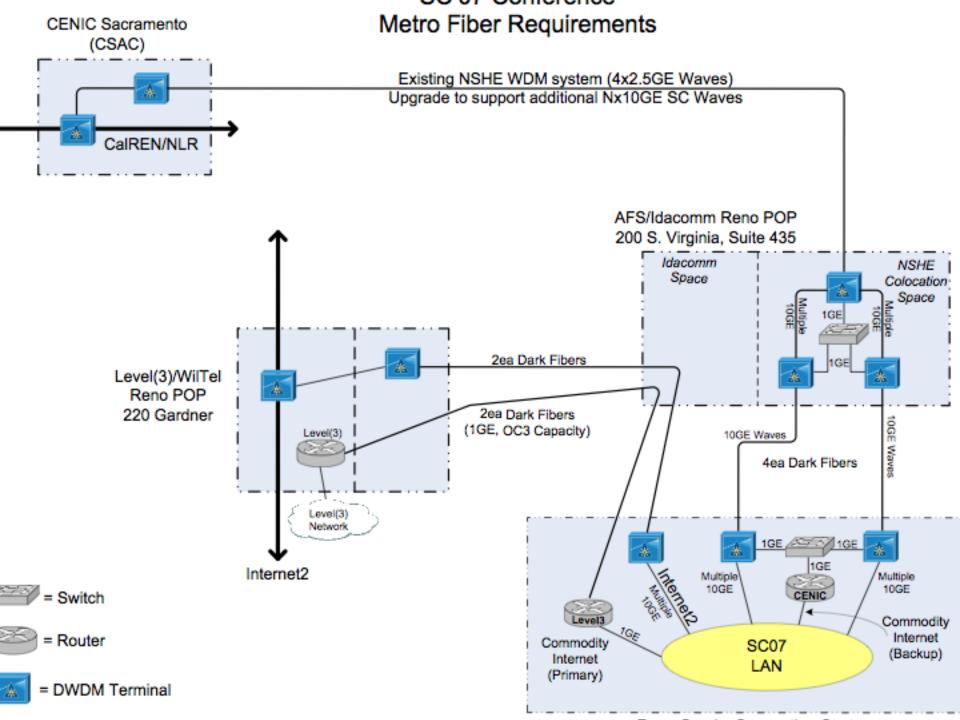
SC07 WAN Transport Group Status Report: 6/19/07

WAN Transport Team

- Ed Smith- CENIC WAN Project Coordinator
- Bill Jensen Univ Wisconsin Network Consultant
- Chris Costa CENIC Network Engineer
- Chris Griffin FLR Network Engineer
- Greg Ebner NSHE Network Engineer
- Matt Zekauskas Internet 2 Senior Engineer
- Ryan Vaughn FLR Network Engineer
- Stanton Gurr NSHE Network Engineer
- Vendors
 - Jeff Verant Ciena
 - Kevin McGrattan Cisco
 - Eric Bernier Nortel

RSCC Connectivity Status

- Fiber contract has been signed by American Fiber Systems (AFS) and is awaiting signature from the ACM's COO.
- Partial payment has been made by ACM and we are waiting for confirmation the entire amount has been paid. (City of Reno, Reno Visitors Bureau & RSCC agreed to underwrite 50% of total cost.
- No firm completion date available yet, which is dependent on when construction begins and permit issues, if any.
- CENIC and NSHE have finalized the design and financial issues related to upgrading Reno to Sacramento optical segment.



Hardware Support

- Backhaul transponders for waves into Reno
 - NLR INC
 - NLR LLC
 - Cisco
- SC Metro
 - Cisco 4 Waves from AFS to RSCC
 - Nortel n Waves from AFS to RSCC
 - Ciena n Waves from AFS to RSCC
 - Infinera Internet2 transport from Level(3) to RSCC
 - Fujitsu interests in supporting metro topology
- Commodity Service
 - OC3 from Level(3) Reno
 - GE from CENIC CalREN-DC

WAN Circuits

Status	SC Circuit ID	Description	Туре	Circuit Origin Node	Reno POP	Metro DWDM Transport
tentative tentative tentative tentative Confirmed	SC07-01 SC07-02 SC07-03 SC07-04 SC07-05	NLR-SUNN-FrameNet NLR-SEAT-PacketNet CISCO Pacific Wave CENIC SAC ISP	10GE LAN 10GE LAN 10GE LAN 10GE LAN 1GE	SUNN SEAT SUNN SUNN SAC	AFS AFS AFS AFS	Cisco Cisco Cisco Cisco
tentative tentative tentative tentative tentative tentative	SC07-11 SC07-12 SC07-13 SC07-14 SC07-15 SC07-16 SC07-17	NLR-SEAT-FrameNet NLR-LOSA-PacketNet SDSC/Teragrid-1 EVL/CaveWave SPARE WAVE unassigned Reno Level(3) ISP	10GE LAN 10GE LAN OC192 10GE LAN 10GE LAN	SEAT LOSA LOSA SUNN SUNN RENO	AFS AFS AFS AFS AFS Level(3)	ONS-1 ONS-2 ONS-1 ONS-2 ONS-1 ONS-2 ONS-1
tentative tentative tentative tentative tentative	SC07-21 SC07-22 SC07-23 SC07-24 SC07-25	ESNet IP ESNet SDN Internet2 IP Internet2 IP Internet2 DCS	10GE 10GE OC 192 OC 192 10GE	SUNN? SUNN? LOSA? SALT? SALT?	Level(3) Level(3) Level(3) Level(3) Level(3)	Infinera Infinera Infinera Infinera Infinera

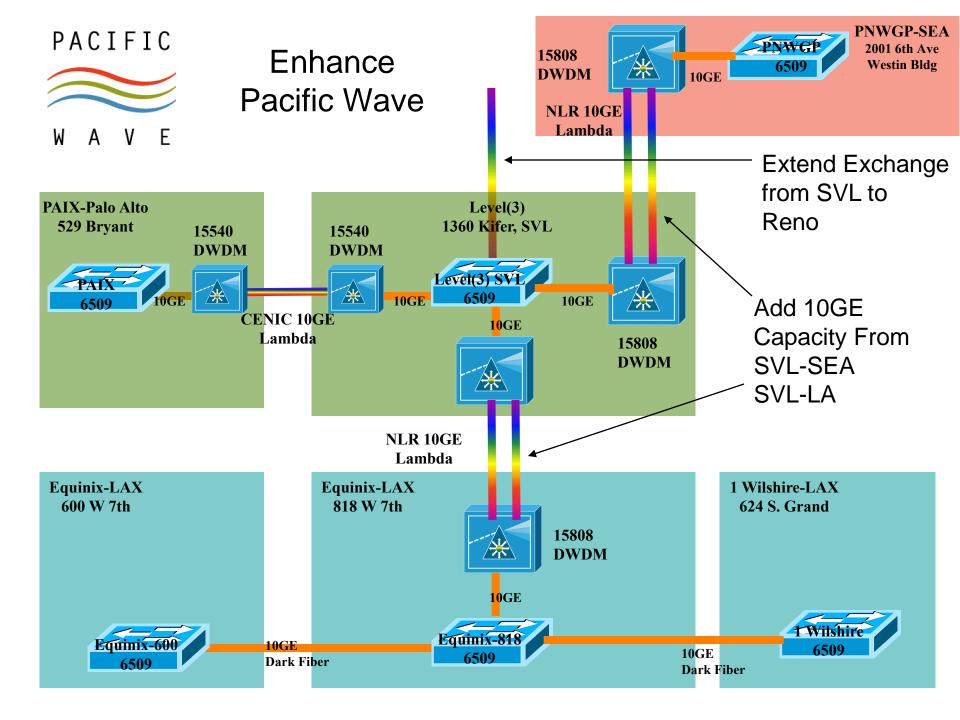
PATCH Termination SC07 West WAN Transport Wave Map 10**G** 1GE CENIC CSAC PNWGP SEA Level(3) SVL **AFS Reno RSCC** NLR-SEA/SVL CENIC-SVL/SAC NSHE-SAC/RENO SC-RENO/RSCO NLR-FN SC07-01 ◆ NLR-FN NLR-PN SC07-02 NLR-PN NLR-PN SC07-03 Cisco Cisco **PWave** SC07-04 PWave NLR-FN SC07-11 NLR-FN SC07-12 ◆ NLR-PN SC07-13 Teragrid Existing SC07-14 CaveWave CaveWave SC07-15 Spare SC07-16 Unassigned CalREN SAC ISP CalREN ISP CENIC-LA/SVL L(3) ISP AFS Dark Fiber CENIC-SDG PWave CENIC-LA L(3) Reno ISP CaveWave Existing CENIC-LA/SDG Updated: 6/14/07 cc

SC07 Internet2 WAN Transport

- Internet2 Network from Level(3) Reno
 - Network passes through Reno
 - Extending 5 to 10 10G waves into RSCC
 - Ability to augment LosAngeles-Reno-Chicago path if needed
 - Reviewing need for experimental wave services

SC07 Internet2 Waves (so far)

- 2x Internet2 IP
- 1x Internet2 Dynamic Circuit Service
- 1x ESnet IP
- 1x ESnet Science Data Network
- OpenFabrics from IA State via BOREAS
- Investigating KREONET extension from Westin Seattle to Reno
- Call for waves is over, but... any more?



Scheduled Dates

- June/July, 2007:
 - Plan and deploy backhaul circuits from SVL to SAC
- August, 2007:
 - Upgrade NSHE Reno-Sac ONS system
 - OTDR test metro fiber
 - Test Circuits from SVL to Reno
- Week of Sep 17, 2007:
 - WAN Staging
 - Install metro systems from AFS/Reno to RSCC
 - Test circuits from SVL to RSCC
- Week of Oct 20-21, 2007:
 - Scinet Network Staging
 - Verify operation of circuits to scinet network
- Week of Nov 5 and 11, 2007:
 - Network Setup
 - Conference Support